

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P510475

Luminaire Tested: **CTN-CA10-310-730-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-310-730-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49435 lumens
Efficiency: N/A
Efficacy: 158.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

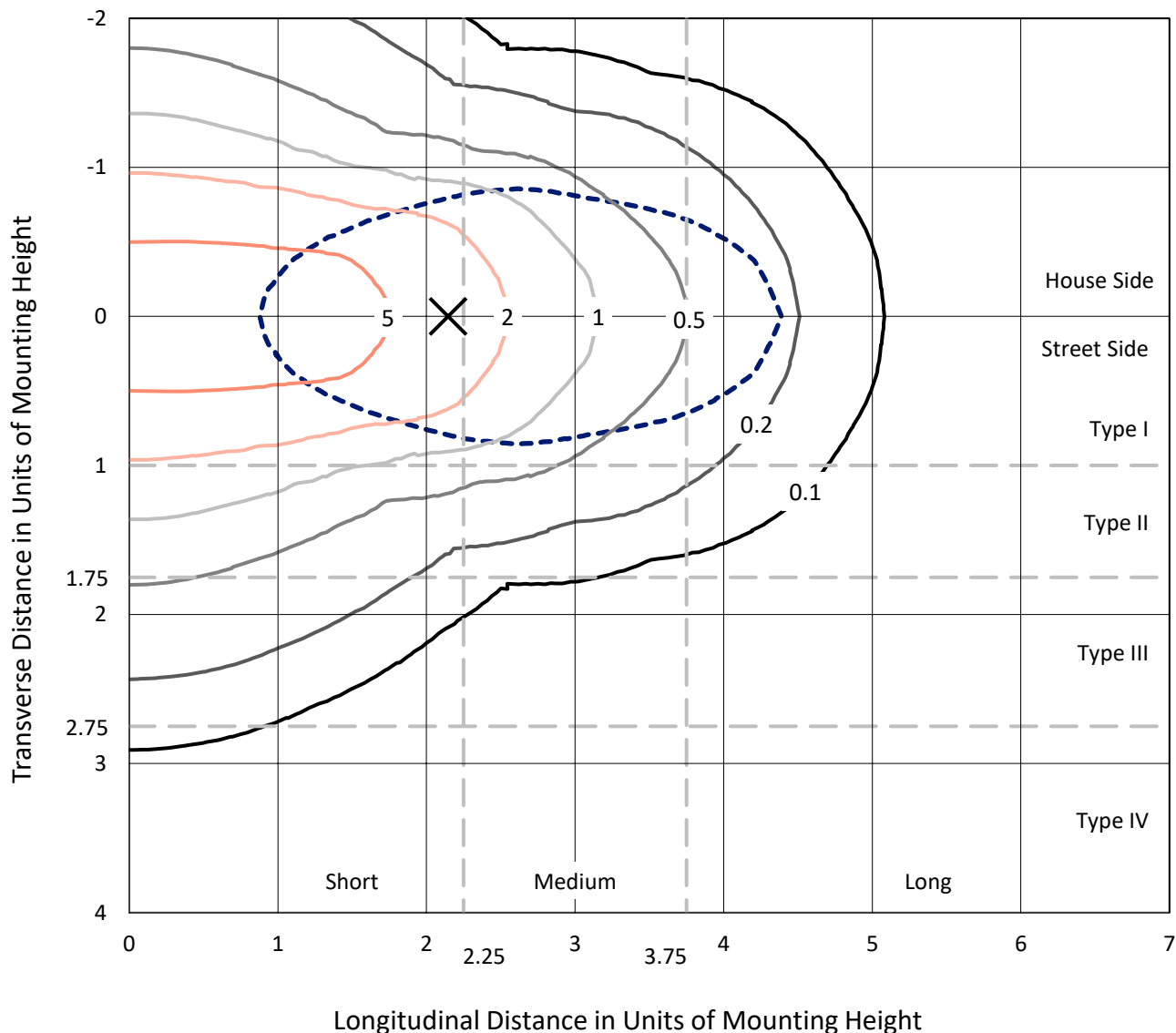
Input Watts (W): 312.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

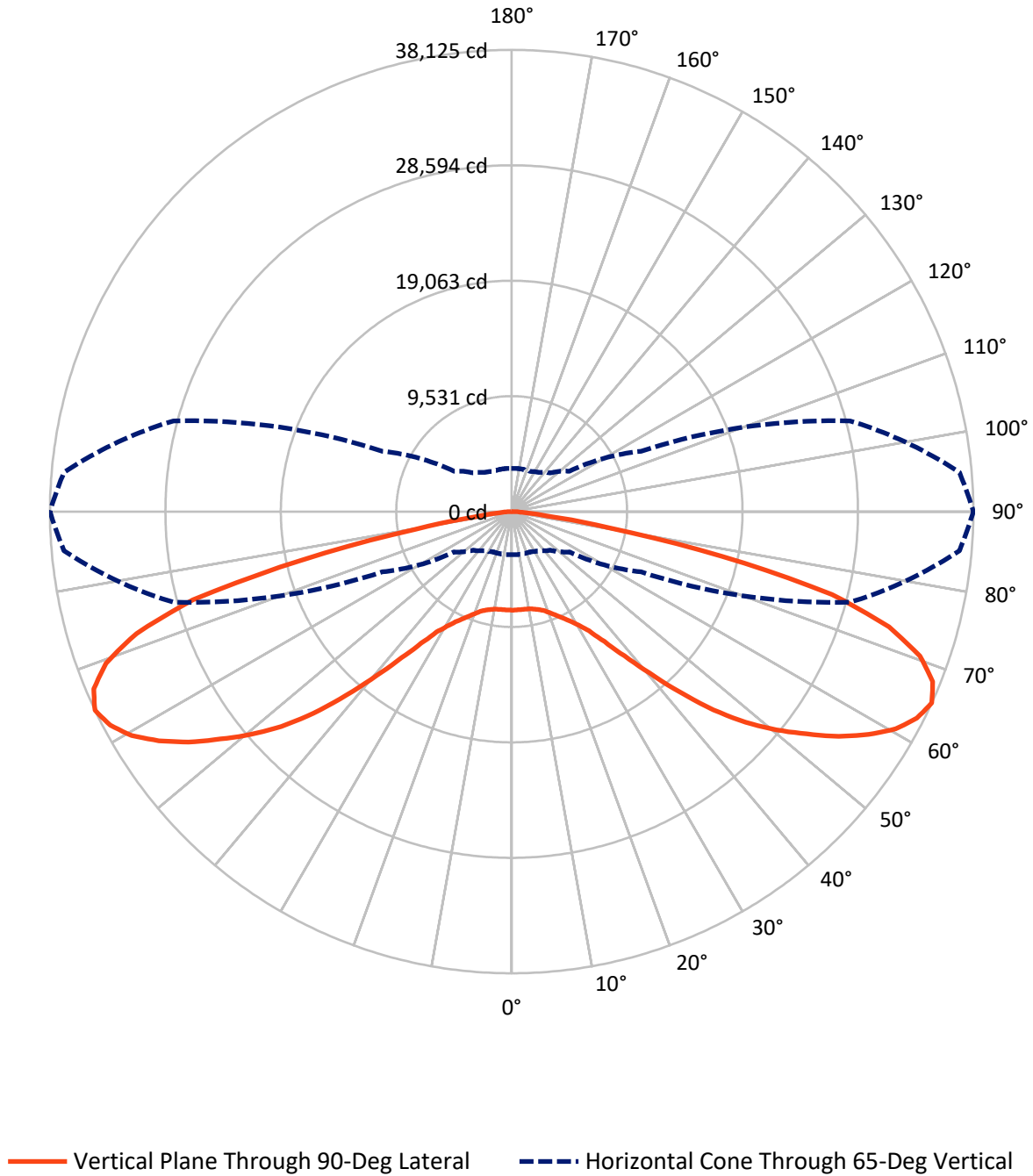
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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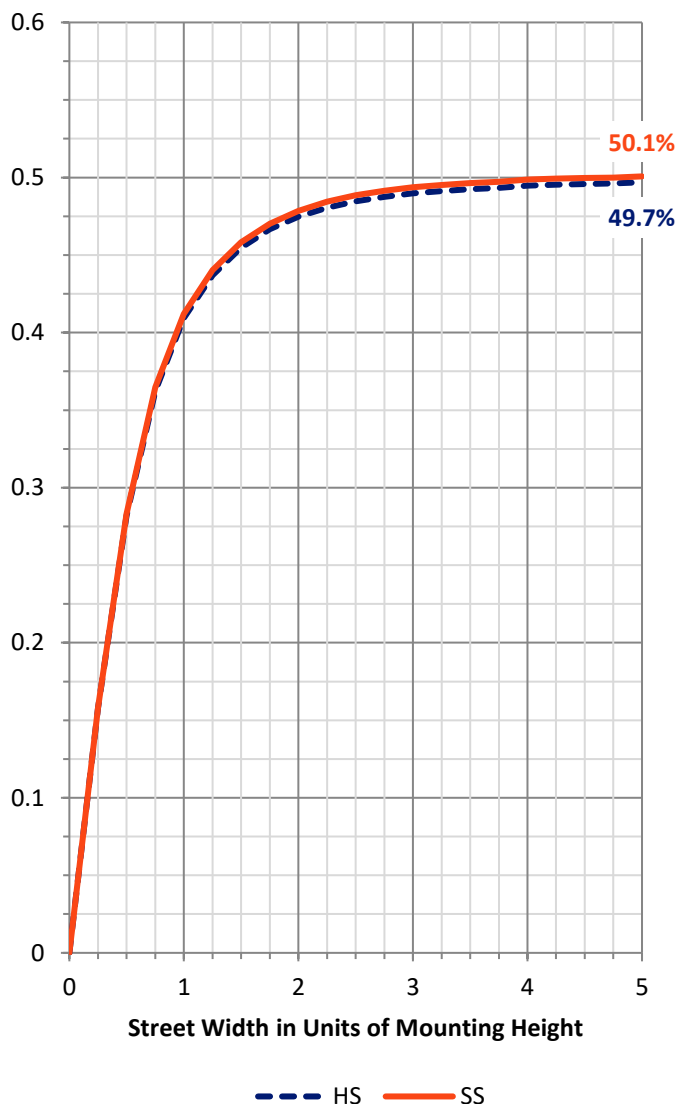
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24717.5	0.0	24717.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24717.5	0.0	24717.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	49435.0	0.0	49435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	772.9	1.6
10°-20°	2280.7	4.6
20°-30°	3756.9	7.6
30°-40°	5504.4	11.1
40°-50°	8138.8	16.5
50°-60°	10676.0	21.6
60°-70°	11138.1	22.5
70°-80°	6403.8	13.0
80°-90°	763.4	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	49435.0	100.0
0°-180°	49435.0	100.0

Coefficient of Utilization

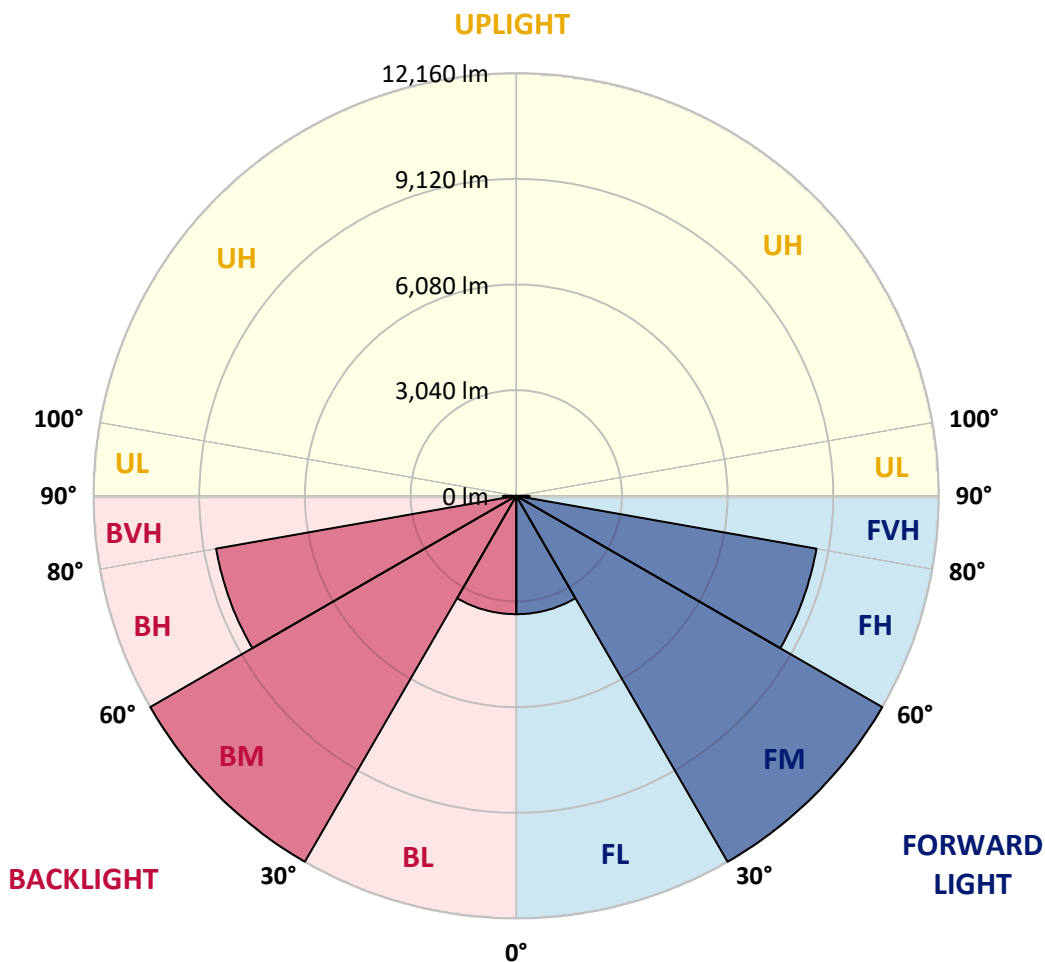


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3405.3	6.9			
FM (30°-60°)	12159.6	24.6			
FH (60°-80°)	8770.9	17.7			G4/12000
FVH (80°-90°)	381.7	0.8			G3/500
BL (0°-30°)	3405.3	6.9	B4/5000		
BM (30°-60°)	12159.6	24.6	B5		
BH (60°-80°)	8770.9	17.7	B5		G5
BVH (80°-90°)	381.7	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3
2.5°	8142.3	8136.5	8134.6	8131.7	8136.5	8140.4	8150.1	8158.8	8156.8	8154.9	8156.8
5°	8096.9	8099.8	8100.8	8101.8	8105.6	8108.5	8122.0	8135.6	8133.6	8131.7	8141.4
7.5°	8033.2	8033.2	8031.2	8029.3	8037.0	8043.8	8057.3	8070.8	8081.5	8091.1	8106.6
10°	7940.4	7936.5	7935.6	7934.6	7943.3	7951.0	7976.1	8001.3	8022.5	8042.8	8068.9
12.5°	7827.3	7826.4	7828.3	7830.2	7848.6	7867.0	7909.5	7952.0	7994.5	8037.0	8074.7
15°	7693.0	7681.5	7691.1	7699.8	7729.8	7758.7	7840.9	7923.0	7987.7	8051.5	8124.9
17.5°	7488.2	7476.6	7491.1	7504.6	7564.5	7624.4	7740.4	7855.4	7977.1	8098.9	8204.2
20°	7178.0	7178.0	7214.8	7251.5	7352.9	7454.4	7613.8	7772.3	7936.5	8100.8	8253.5
22.5°	6847.6	6837.9	6916.2	6994.5	7116.2	7237.0	7438.0	7638.9	7856.3	8072.8	8282.4
25°	6474.6	6491.1	6589.6	6687.2	6858.2	7028.3	7275.6	7522.0	7795.5	8068.9	8359.7
27.5°	6159.7	6162.6	6281.4	6400.2	6614.7	6828.3	7128.8	7429.3	7762.6	8096.0	8462.2
30°	5834.0	5887.2	6012.8	6137.4	6377.1	6616.7	6980.0	7342.3	7737.5	8132.7	8579.1
32.5°	5583.8	5596.3	5738.4	5879.4	6129.7	6380.0	6802.2	7224.4	7698.8	8173.3	8716.3
35°	5348.0	5368.3	5500.7	5633.1	5893.9	6153.9	6616.7	7078.5	7645.7	8211.9	8865.1
37.5°	5138.4	5163.5	5289.1	5414.7	5665.9	5917.1	6408.0	6898.8	7563.6	8228.3	9028.4
40°	4984.7	5006.0	5112.3	5218.6	5445.6	5671.7	6185.7	6698.8	7448.6	8198.4	9156.9
42.5°	4873.6	4883.3	4969.3	5055.3	5258.2	5461.1	5970.3	6478.5	7298.8	8119.1	9256.4
45°	4722.9	4744.1	4829.2	4913.2	5095.8	5277.5	5743.2	6208.9	7076.6	7943.3	9257.4
47.5°	4610.8	4624.3	4704.5	4783.8	4953.8	5123.9	5542.2	5960.6	6825.4	7689.2	9153.0
50°	4528.7	4521.9	4596.3	4669.7	4813.7	4956.7	5329.7	5701.7	6514.3	7326.8	8892.1
52.5°	4411.8	4419.5	4479.4	4539.3	4663.9	4787.6	5121.9	5455.3	6169.3	6882.4	8468.9
55°	4255.2	4291.0	4341.2	4390.5	4499.7	4608.9	4909.4	5209.9	5824.4	6437.9	7924.0
57.5°	4101.6	4127.7	4170.2	4212.7	4298.7	4383.7	4666.8	4949.9	5461.1	5972.2	7236.0
60°	3976.0	3982.8	4009.8	4035.9	4101.6	4167.3	4401.1	4635.0	5081.4	5526.8	6550.0
62.5°	3813.7	3815.6	3834.0	3852.3	3892.9	3932.5	4116.1	4298.7	4679.4	5060.1	5867.9
65°	3559.6	3575.0	3592.4	3608.8	3635.9	3662.0	3802.1	3942.2	4227.2	4512.2	5163.5
67.5°	3302.5	3289.0	3309.3	3329.6	3333.5	3337.3	3443.6	3549.9	3783.7	4017.5	4541.2
70°	2884.2	2894.8	2892.9	2890.0	2873.5	2856.1	2930.5	3004.9	3128.6	3251.3	3630.1
72.5°	2211.7	2197.2	2160.5	2122.8	2105.4	2088.0	2175.0	2261.0	2351.8	2442.6	2716.0
75°	1351.7	1393.3	1469.6	1545.0	1574.0	1603.0	1598.1	1592.3	1584.6	1576.9	1917.9
77.5°	916.0	938.2	955.6	972.0	1014.5	1056.1	1104.4	1152.7	1151.7	1150.8	1365.3
80°	582.6	565.2	573.0	580.7	604.9	629.0	702.4	774.9	795.2	814.5	962.4
82.5°	365.2	368.1	377.8	386.5	359.4	332.4	389.4	445.4	493.7	541.1	609.7
85°	236.7	268.6	263.8	258.9	227.1	195.2	245.4	295.7	318.9	341.1	367.2
87.5°	76.3	88.9	91.8	93.7	93.7	92.8	103.4	114.0	117.9	120.8	130.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3	8144.3
2.5°	8157.8	8148.1	8138.5	8135.6	8132.7	8130.7	8128.8	8126.9
5°	8150.1	8148.1	8146.2	8138.5	8130.7	8129.8	8128.8	8131.7
7.5°	8122.0	8122.0	8122.0	8130.7	8139.4	8135.6	8130.7	8136.5
10°	8094.0	8117.2	8140.4	8147.2	8153.9	8158.8	8163.6	8168.4
12.5°	8112.4	8152.0	8190.6	8212.9	8235.1	8246.7	8257.3	8260.2
15°	8198.4	8248.6	8298.9	8328.8	8357.8	8377.1	8396.5	8401.3
17.5°	8309.5	8386.8	8463.1	8506.6	8550.1	8572.3	8593.6	8586.8
20°	8405.1	8511.4	8617.7	8710.5	8803.2	8854.4	8904.7	8910.5
22.5°	8491.1	8669.9	8848.6	8968.5	9087.3	9178.1	9268.9	9278.6
25°	8649.6	8883.4	9117.3	9308.6	9499.9	9583.0	9665.1	9713.4
27.5°	8827.4	9140.4	9453.5	9709.5	9965.6	10092.2	10217.8	10224.5
30°	9024.5	9421.6	9817.8	10161.7	10504.7	10659.3	10813.0	10894.1
32.5°	9258.3	9762.7	10266.1	10718.3	11170.5	11405.3	11640.1	11722.2
35°	9517.3	10171.4	10824.6	11447.8	12070.0	12519.3	12968.6	13185.0
37.5°	9828.4	10661.3	11494.2	12430.4	13366.7	14132.9	14898.1	15116.5
40°	10115.4	11186.9	12257.5	13558.0	14858.5	16074.0	17288.6	17525.3
42.5°	10393.6	11690.3	12987.0	14760.9	16534.9	18162.0	19789.2	20404.6
45°	10570.4	12138.6	13705.8	16045.1	18384.3	20618.2	22851.1	23368.0
47.5°	10615.9	12458.4	14301.0	17198.7	20096.4	22725.5	25353.6	26017.4
50°	10457.4	12624.6	14791.9	18616.2	22439.5	25116.9	27793.3	28338.3
52.5°	10055.5	12571.5	15087.5	19714.8	24342.0	27175.9	30009.8	30504.5
55°	9410.0	12248.8	15087.5	20619.1	26149.8	29089.0	32027.3	32779.0
57.5°	8499.8	11632.3	14764.8	21223.0	27681.2	30873.6	34066.0	34741.4
60°	7573.2	10899.0	14223.7	21556.4	28889.0	32270.8	35652.6	36441.0
62.5°	6674.6	9902.8	13130.0	21206.6	29283.2	32853.4	36422.6	37557.0
65°	5814.7	8796.5	11778.2	20353.4	28927.7	33018.6	37108.7	38125.1
67.5°	5064.9	7871.8	10678.7	18923.4	27168.2	31695.9	36222.6	37489.3
70°	4008.8	6591.6	9174.3	16388.1	23601.9	28904.5	34207.1	35770.4
72.5°	2989.5	5179.9	7369.4	12891.3	18413.3	24511.1	30607.9	32575.1
75°	2258.1	4137.4	6016.7	10189.8	14362.9	19525.4	24687.9	27320.8
77.5°	1579.8	2989.5	4398.2	7511.4	10624.6	13482.6	16340.7	17743.7
80°	1109.2	1890.9	2671.6	4169.2	5665.9	6933.6	8200.3	8099.8
82.5°	677.3	1005.8	1333.4	1808.8	2284.1	2590.4	2896.7	2883.2
85°	393.3	478.3	562.3	696.6	830.9	982.6	1134.3	1008.7
87.5°	139.1	139.1	139.1	159.4	179.7	247.4	315.0	332.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: CTN-CA10-310-730-U-T1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)